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24223 75	12/03/2003		EXAM	INER
SIM & MCBU			SHAHNAN SHA	H, KHATOL S
330 UNIVERSI 6TH FLOOR	ITY AVENUE		ART UNIT	PAPER NUMBER
TORONTO, ON M5G 1R7 CANADA			1645	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner Khatol S Shahnan-Shah 1645		Application No.	Applicant(s)				
Whato Is Shahnan-Shah 1045		09/857,305	BRUNHAM ET AL.				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Ederations of them may be available under the precisions of 3 CFR 1.13(a). In or event, horsever, may a reply be fitnedly filed If the MAILING DATE OF THIS COMMUNICATION. Ederations of them may be available under the precisions of 3 CFR 1.13(a). In or event, horsever, may a reply be fitnedly filed If the period for reply is pecified above is the asternion of 3 CFR 1.13(a). In or event, horsever, may a reply be fitnedly filed If the period for reply is pecified above is the set han thirty (30) days, a reply within the distinct principle of the communication. If No period for reply is specified above, its meanine address of the mailing date of this communication, even if this period for reply is pecified above, its meanine address or the mailing date of this communication, even if this period for reply is pecified above, its meanine address or the mailing date of this communication. Fallure to reply visible the event and the second proper of the period of the period for reply is pecified down. It is a communication. Fallure to reply visible the event and the mail of the communication, even if this period is a period part of the period part of the period part of the period part of the communication. This action is FINAL. 2b) This action is non-final. 3) Is accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-40 is/are pending in the application. 4) Claim(s) 1-40 is/are pending in the application. 4) Claim(s) 1-40 is/are pending in the application. 4) Claim(s) 1-40 is/are allowed. 5) Claim(s) 1-40 are subjected to be the period part of the	Office Action Summary	Examiner	Art Unit				
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DETAILED ACTION

1. Applicants' Information Disclosure Statement of 08/23/2001 is acknowledged. The IDS has been considered by the Examiner (see attached PTO 1449). However, the listing of references in pages 14-17 of the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A (1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Election/Restrictions

2. Applicants' response to restriction requirement of October 08, 2003, is acknowledged.

Applicants elected group II, (claims 19-28) with traverse, which is drawn to an attenuated bacterium. For election of species applicants elected species of claim 22 (Chlamydia trachomatis) Applicants argue, that the special technical feature of the invention linking groups I-III is not the immunological activity of MOMP. Applicants' arguments have been carefully considered, but they are not persuasive. It is the examiner's position the claims specially the main claim 1 is drawn to a method of immunizing a host against using an immunoprotectioninducing Chlamydia protein. The requirement is still deemed proper and therefore made FINAL.

3. Claims 1-40 are pending in this application. Claims 1-18, 21 and 29-40, are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to non-elected inventions.

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4. Claims 19, 20 and 22-28 are under consideration.

Priority

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5. An application in which the benefits of an earlier application are desired must contain a specific reference to the prior application(s) in the first sentence of the specification (37 CFR 1.78).

Complete priority statement is missing from specification:

A statement reading "This application is a national phase application under 35 U.S.C. 371 of PCT/CA99/01151 filed 12/02/1999 which claims priority to provisional application No. 60/110,855, filed on 12/04/1998" should be entered following the title of the invention or as the first sentence of the specification. Also, the current status of the parent provisional application(s) should be included. A claim for priority under 35 U.S.C. 119 (a) (d) (e) cannot be based on said application, until proper corrections are made.

Abstract

6. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Double Patenting

7. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefore..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

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8. Claims 19, 20 and 22-28 provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 19, 20 and 22-28 of copending Application No. 09/453289. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 112

9. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

10. Claim 26 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 26 is drawn to a plasmid vector having the identifying characteristics of pcDNA3/MOMP.

Because it is not clear that plasmid possessing the properties of pcDNA3/MOMP is known and publicly available or can be reproducibly isolated from nature without undue experimentation and because the claims require the use of is a suitable deposit for patent purposes is required. Without a public available deposit of the above plasmid pcDNA3/MOMP, one of ordinary skill in the art could not be assured of the ability to practice the invention as claimed. Exact replication of the cell line is an unpredictable event.

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address of the depository is required.

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Applicants' referral to figure 5 to construction of plasmid pcDNA3/MOMP on page 7 of the specification is an insufficient assurance that all required deposits have been made and all the conditions of 37 CFR 1.801-1.809 have been met.

If the deposit has been made under the provisions of the Budapest Treaty, filing of an affidavit or declaration by applicant or assignees or a statement by an attorney of record who has authority and control over the conditions of deposit over his or her signature and registration number stating that the deposit has been accepted by the International Depository Authority under the provisions of the Budapest Treaty and that all restrictions upon public access to the deposit will be irrevocably removed upon the grant of a patent on this application. These requirements are necessary when deposits are made under the provisions of the Budapest Treaty as the Treaty leaves this specific matter to the discretion of each State. Amendment of the specification to recite the date of the deposit and the complete name and full street

If the deposits have not been made under the provisions of the Budapest Treaty, then in order to certify that the deposits comply with the criteria set forth in 37 CFR 1.801-1.809, assurances regarding availability and permanency of deposits are required. Such assurance may be in the form of an affidavit or declaration by applicants or assignees or in the form of a statement by an attorney of record who has the authority and control over the conditions of deposit over his or her signature and registration number averring:

(a) during the pendency of this application, access to the deposits will be afforded to the Commissioner upon request;

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(b) all restrictions upon the availability to the public of the deposited biological material will be irrevocably removed upon the granting of a patent on this application;

- (c) the deposits will be maintained in the public repository for a period of at least thirty years from the date of deposit or for the enforceable life of the patent of or for a period of five years after the date of the most recent request for the furnishing of a sample of the deposited biological material, whichever is longest; and
- (d) the deposits will be replaced if they should become nonviable or non-replicable.

In addition, a deposit of biological material that is capable of self-replication either directly or indirectly must be viable at the time of deposit and during the term of deposit. Viability may be tested by the repository. The test must conclude only that the deposited material is capable of reproduction. A viability statement for each deposit of biological material not made under the Budapest Treaty must be filed in the application and must contain:

- 1) The name and address of the depository;
- 2) The name and address of the depositor;
- 3) The date of deposit;
- 4) The identity of the deposit and the accession number given by the depository;
- 5) The date of the viability test;
- 6) The procedures used to obtain a sample if test is not done by the depository; and
- 7) A statement that the deposit is capable of reproduction.

As a possible means for completing the record, applicant may submit a copy of the contract with the depository for deposit and maintenance of each deposit.

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If the deposit was made after the effective filing date of the application for patent in the United States, a verified statement is required from a person in a position to corroborate that the plasmid pcDNA3/MOMP described in the specification as filed is the same as that deposited in the depository. Corroboration may take the form of a showing a chain of custody from applicant to the depository coupled with corroboration that the deposit is identical to the biological material described in the specification and in the applicant's possession at the time the application was filed.

Applicants' attention is directed to <u>In re Lundack</u>, 773 F.2d.1216, 227 USPQ (CAFC 1985) and 37 CFR 1.801-1.809 for further information concerning deposit practice.

- 11. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 12. Claims 19, 20 and 22-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear what applicants intend in recitation of limitation of "immunoprotection-inducing *Chlamydia* protein" in claims 19 and 20.

Claim 23 recites the limitation "said host" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 26 is indefinite in referring to a figure.

Claims 22, 24, 25, 27 and 28 are rejected as being depended from indefinite claims 19, 20 and 23.

Claim Rejections - 35 USC § 102

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13. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 14. Claims 19, 20 and 22-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Murdin et al. (US 6,521,745 B1).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Claims are drawn to an attenuated strain of a bacterium harboring a nucleic acid molecule encoding an immunogenic protein of *Chlamydia*.

Murdin et al. teach an attenuated strain of a bacterium harboring a nucleic acid molecule encoding an immunogenic protein of *Chlamydia trachomatis* (see column 3, lines 40-45 and 4, lines 35-45). Murdin et al. teach promoters and *Salmonella typhimurium* (see column 11, lines 25-35). Murdin et al. teach *Cytomegalovirus* promoters (see column 14, lines 25-30). Murdin et al. teach pcDNA3 plasmid (see example 2, column 24). The prior art teaches the claimed invention.

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Claims 19, 20, 22, 27 and 28 are rejected under 35 U.S.C. 102(e) as being anticipated by 15.

Caldwell et al. (US 5,869,608).

Claims are drawn to an attenuated strain of a bacterium harboring a nucleic acid molecule

encoding an immunogenic protein of Chlamydia.

Caldwell et al. teach an attenuated strain of a bacterium harboring a nucleic acid molecule

encoding an immunogenic protein of *Chlamydia trachomatis* (see column 2, lines 46-60).

Caldwell et al. teach Salmonella typhimurium (see column 2, lines 53-55). The prior art teaches

the claimed invention.

Conclusion

No claims are allowed. 16.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Khatol Shahnan-Shah whose telephone number is (703) 308-8896. The

examiner can normally be reached on 7:30 AM - 4 PM from Monday through Friday. If attempts

to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette F Smith,

can be reached on (703) 308-3909. The fax phone number for the organization where this

application or proceeding is assigned to is (703) 305-3014.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0196.

Khatol Shahnan-Shah, BS, Pharm, MS

Biotechnology Patent Examiner

Art Unit 1645, November 29, 2003

PRIMARY EXAMINER